

Welcome to the CWNS Web Seminar Series

Seminar Logistics / Ground Rules

Call in number is 1-866-814-8399 (press *0 on your phone to reach an operator).

All participants phones will be muted for this presentation.

A question can be asked at anytime by typing it in the question box.

This training is being recorded.

Clean Watersheds Needs Survey (CWNS) 2008



Documenting Stormwater Needs

Presenters:

Nikos Singelis, US EPA

Katherine Telleen, ORISE

Karen Fligger, US EPA

Overview

- What is CWNS
- What is Stormwater
- Top Six Reasons to Participate in CWNS
- Documenting Stormwater Needs
- Collecting and Entering Stormwater Data
- CWNS 2004 Lessons Learned
- CWNS 2008 Data Entry System
- Resources

Top 6 Reasons to Participate in CWNS

1. The needs are underreported
2. Assists Congress and state legislatures to develop budgets and set policy
3. Tool to collect data for programmatic planning purposes at the state and national level
4. Informs the public and contributes to academic research
5. Provide documentation needed to apply for State Revolving Fund (SRF) money
6. Tool for municipal stormwater planning and reporting

What is CWNS

What is CWNS

- Assessment of capital needs to meet the Clean Water Act's (CWA) water quality goals
- Need: A capital project, with associated costs, that addresses a water quality or water-related public health problem
- Joint effort by EPA, States, & Local organizations
- Every 4 years as required by CWA Sec 516 (started in 1972)
- Results in Report to Congress

What is CWNS

Survey

States submit needs data from Jan.- Oct. 2008



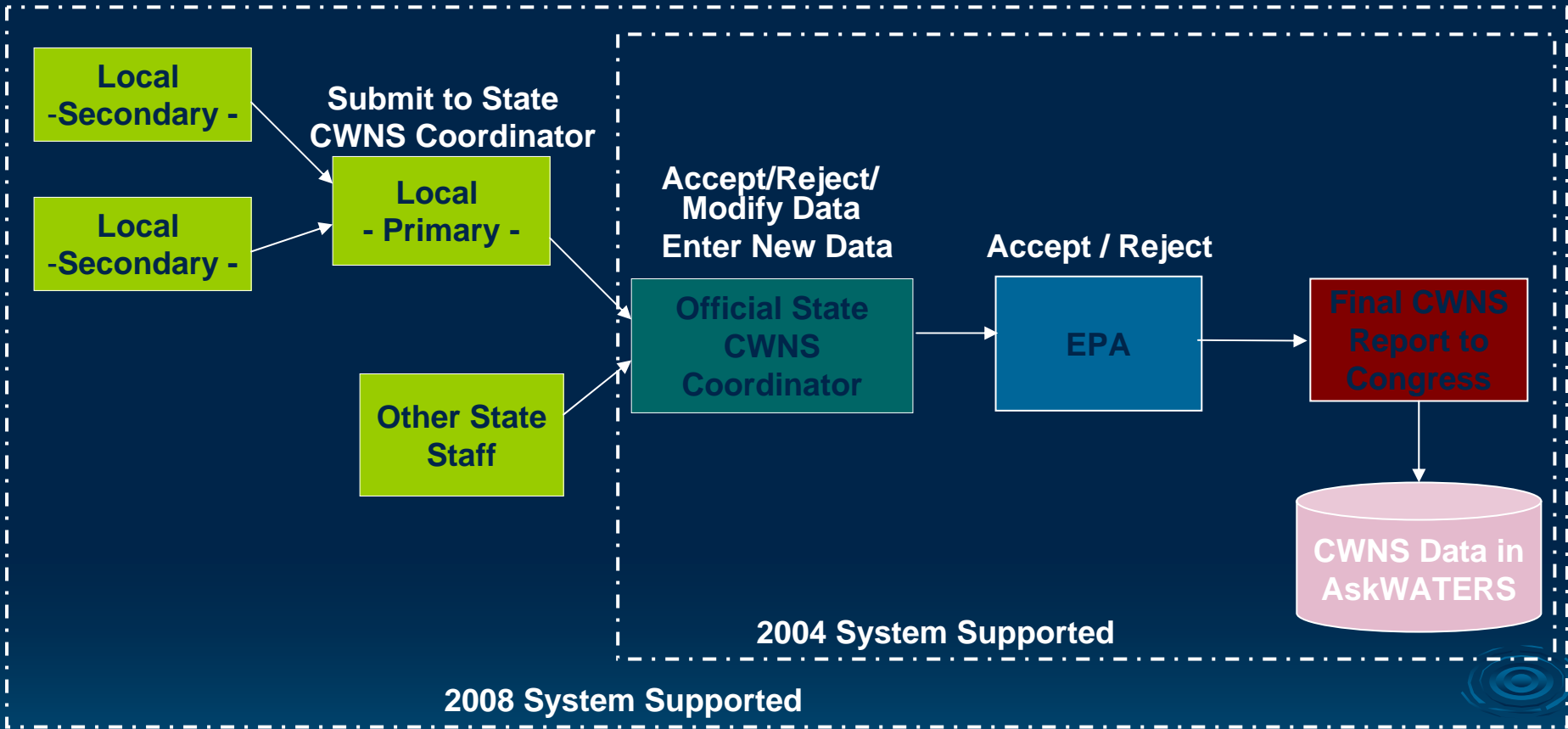
Report to Congress

EPA uses survey to complete Report to Congress. Congress uses report to inform policy and SRF allocations.



Survey data becomes publicly available

What is CWNS



What data is collected?

- Includes information about:
 - Publicly owned wastewater facilities
 - **Stormwater management projects**
 - Combined sewer overflow (CSO) control
 - Non-point source pollution control projects (including onsite/ decentralized treatment)
 - Estuary Management projects

What data is collected?

- Information collected includes:
 - Estimated needs (cost and technical information)
 - Location and contact information
 - Permit information and discharge data
 - Solution to the project/ best management practices (BMPs)
 - WWT facility population served, flow, effluent, and unit process data

Questions

Questions can be asked at anytime by typing them in the question box.

What is Stormwater



What is an MS4?

- A municipal separate storm sewer system (MS4) is:
- A conveyance or system of conveyances... owned by a state, city, town, or other public entity that discharges to waters of the U.S. and is:
 - designed or used for collecting or conveying stormwater
 - not a combined sewer
 - not part of a Publicly Owned Treatment Works (POTW)

This is an MS4!



Phase I Coverage

- Covers municipalities with populations over 100,000
- Many interconnected small MS4s also permitted
- Approximately 275 permits covering 1,000 MS4s have been issued

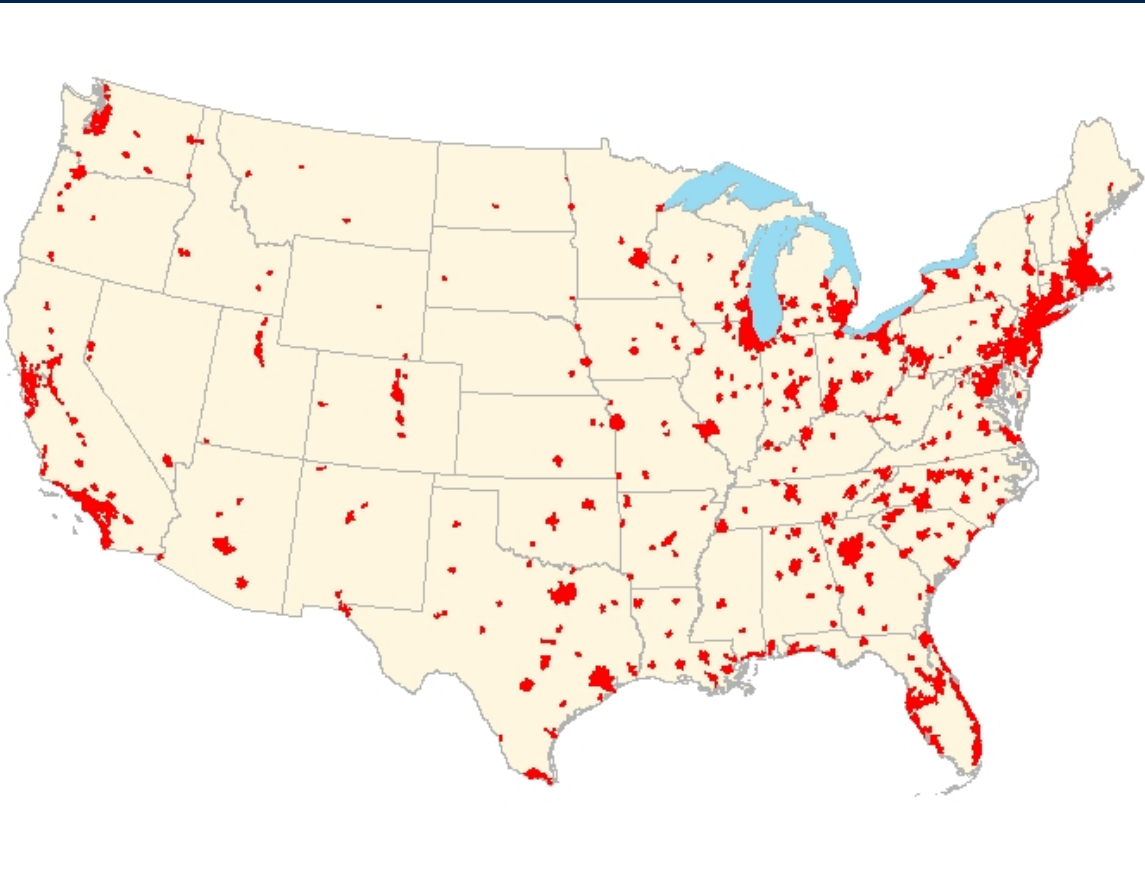


Phase II Coverage

- Covers more than 5,000 smaller MS4s in “urbanized areas”
- Urbanized areas based on decennial census
- Permitting authorities can also designate additional small MS4s that are outside of urbanized areas
- Includes non-traditional MS4s



Urbanized Areas (UA) in U.S.



- 464 UAs
- 6,000+ Communities
- 197 million people
- 70% of the population
- 2% of the land area

Unregulated MS4s

- Outside urbanized areas (UAs)
- Not designated by the permitting authority (state or EPA)

Point Source vs. Non-Point Sources

- Stormwater has expanded the definition of “point source”
- Some stormwater remains covered as “non-point source”
 - Agricultural
 - Small MS4s outside urbanized areas

Six Minimum Measures

- Public Education and Outreach
- Public Involvement and Participation
- Illicit Discharge Detection and Elimination
- Construction Site Runoff Control
- Post-Construction Storm Water Management for New and Re-development
- Pollution Prevention/Good Housekeeping for Municipal Operations



Types of Stormwater Needs for CWNS

- Traditional Conveyance
 - Pipes, inlets, road side ditches
- Traditional Treatment
 - Wet ponds, dry ponds, manufactured devices
- Green Infrastructure/ LID
 - Bioretention, constructed wetlands, permeable pavement, rain gardens, etc
- General Stormwater Management
 - Planning, GIS systems, tracking systems, education, equipment (street sweepers)

Questions

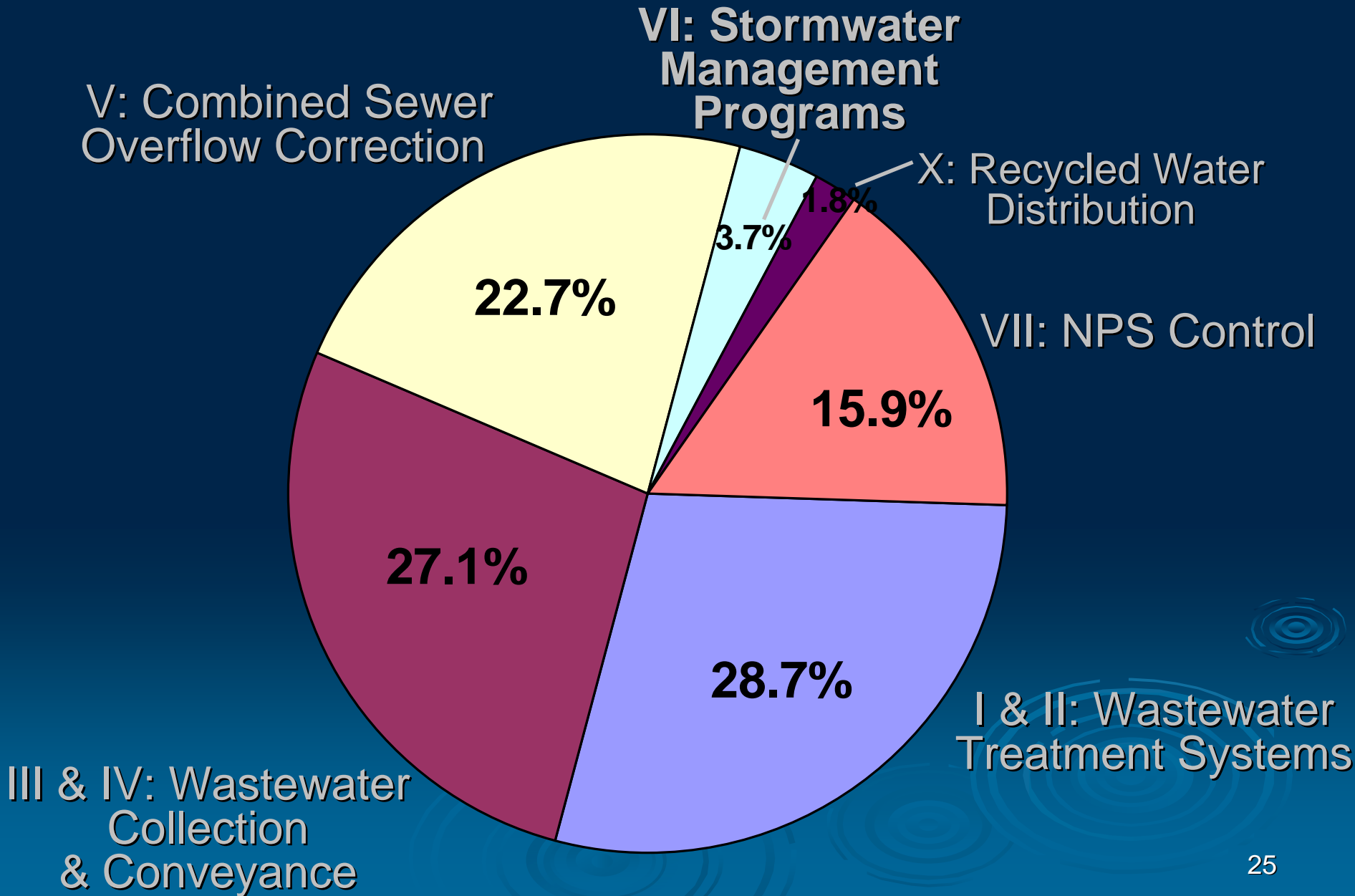
Questions can be asked at anytime by typing them in the question box.

Top 6 Reasons to Participate in CWNS

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1. The needs are underreported.

2004 Distribution of Needs



Top 6 Reasons to Participate in CWNS

1. The needs are underreported
- 2. Assists Congress and state legislatures to develop budgets and set policy**

Top 6 Reasons to Participate in CWNS

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- 3. Tool to collect data for programmatic planning purposes at the state and national level.**

Top 6 Reasons to Participate in CWNS

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- 4. Informs the public and contributes to academic research**

How is CWNS data available?

- Report to Congress
- Ask WATERS allows data to be queried on various scales:
 - National
 - State
 - County
 - Watershed
 - Congressional District
 - Facility/ Project

http://www.epa.gov/waters/tools/ask_waters/index.html

ASK Questions WATERS

Click [here](#) to find your question based on applicable program, keyword, or metadata search.

NOTE: Click on the displayed Question to start your Ask WATERS Query!
Click on the Associated Programs to see a Report Description.

EPA Program Management Questions

Question	Associated Programs (Click on link to see Report Description)
How many TMDLs have been completed since 1/1/1998?	Total Maximum Daily Load (TMDL) / NTTS / 303(d)
What TMDLs are associated with PCS facilities?	Total Maximum Daily Load (TMDL) / NTTS / 303(d)
What causes of impairments for an impaired water have been de-listed and what were their reasons for de-listing?	Total Maximum Daily Load (TMDL) / NTTS / 303(d)
How many CWNS 2000 facilities and projects have needs and in what categories are their needs?	Clean Watersheds Needs Survey / CWNS 2000
What CWNS 2000 facilities and projects have needs documented to federal standards?	Clean Watersheds Needs Survey / CWNS 2000
What are the current and projected flows for publicly owned wastewater treatment facilities?	Clean Watersheds Needs Survey / CWNS 2000
How many people are served by publicly owned wastewater treatment facilities?	Clean Watersheds Needs Survey / CWNS 2000
What are the federal needs and flow measures for CWNS 2000 facilities?	Clean Watersheds Needs Survey / CWNS 2000
What are the federal needs and population data for CWNS 2000 facilities?	Clean Watersheds Needs Survey / CWNS 2000
What are the federal needs, flow measures, and population data for CWNS 2000 facilities?	Clean Watersheds Needs Survey / CWNS 2000
What are the discharge methods and locations for CWNS 2000 facilities and projects?	Clean Watersheds Needs Survey / CWNS 2000
What are the names and locations of publicly owned wastewater treatment facilities currently in operation?	Clean Watersheds Needs Survey / CWNS 2000

Analytical/Statistical Questions

Associated Programs (Click on link to see



U.S. Environmental Protection Agency

Watershed Assessment, Tracking Results System

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[EPA Home](#) ; [Water](#) ; [WATERS](#) ; [Tools](#) ; [Ask WATERS](#)

ASK WATERS

Enter Report Selection Criteria for:
How many CWNS 2000 facilities and projects have
needs and in what categories are their needs?

[Return to Ask WATERS Question List](#)

Geographic Location Criteria

[EPA Region](#):

State:
AK - Alaska
AL - Alabama
AR - Arkansas
AS - American Samoa

Watershed (Hydrologic Unit Code) - Click [Map](#) or [List](#) to Select Code

(Display only)

County Name - Click [List](#) to Select County

(Display only)

Congressional District - Click [List](#) to Select Congressional District

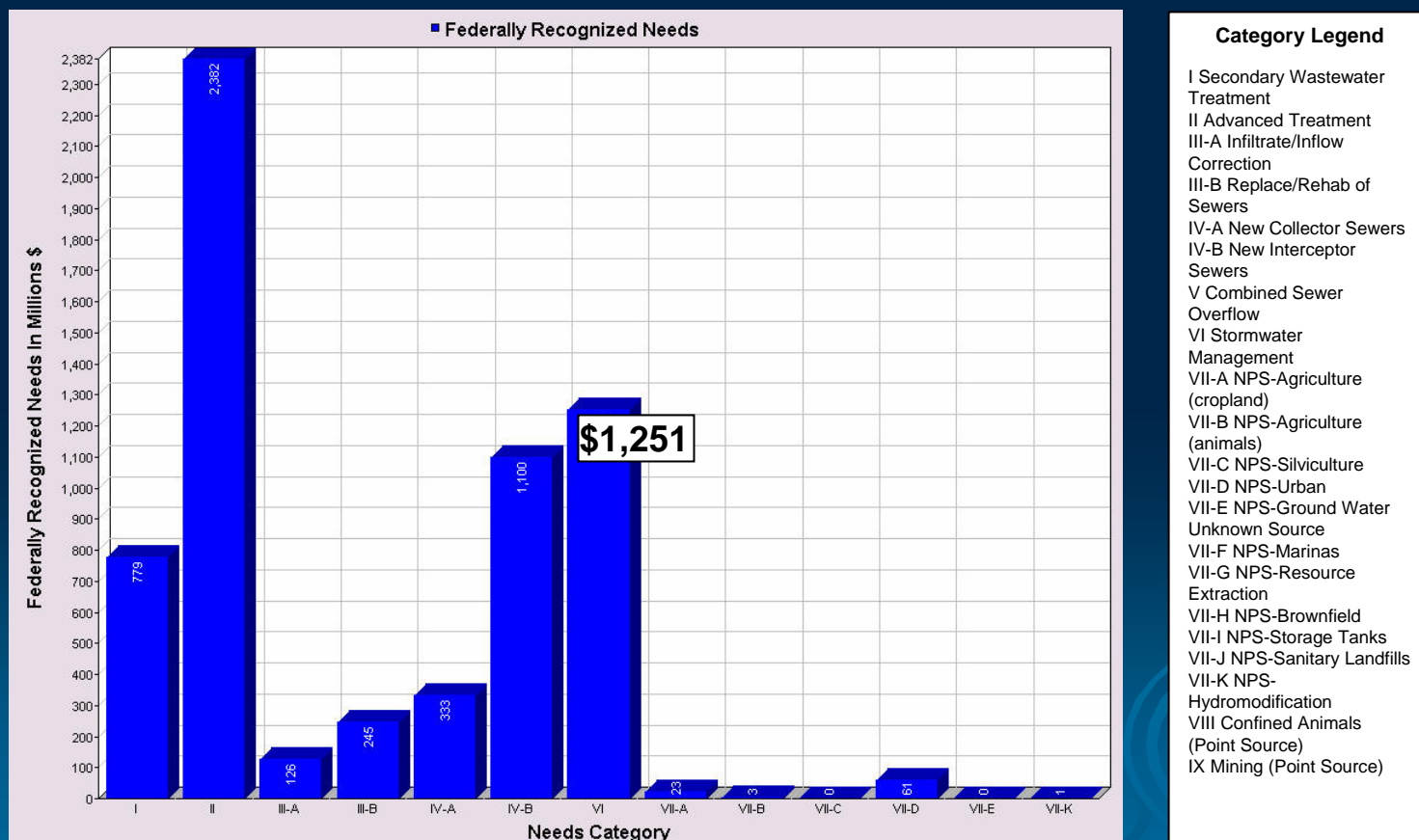
(Display only)

[Run Report](#)

[Reset](#)

Ask WATERS Results (AZ)

- Tables, charts, graphs
- Links to facility/ project factsheets and maps



Top 6 Reasons to Participate in CWNS

1. The needs are underreported
2. Assists Congress and state legislatures to develop budgets and set policy
3. Tool to collect data for programmatic planning purposes at the state and national level
4. Informs the public and contributes to academic research
- 5. Provides documentation needed to apply for funding, including SRF loans**

What can be funded with the SRF?

- Phase I or Phase II NPDES communities: SRF funds publicly owned stormwater projects specified in permit and publicly and privately owned projects not required by permit.
- Unregulated communities: SRF funds publicly and privately owned stormwater projects.

Examples of project eligible for SRF funding

- System rehabilitation
- New collector sewers
- New interceptors
- Storm sewer rehabilitation
- Infiltration/inflow correction
- Sediment traps and basins
- Constructed wetlands
- Street sweepers
- Catch basin vacuum vehicles
- Riparian buffers

Top 6 Reasons to Participate in CWNS

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4. Informs the public and contributes to academic research
5. Provide documentation needed to apply for State Revolving Fund (SRF) money
6. **Tool for municipal stormwater planning and reporting**

Questions

Questions can be asked at anytime by typing them in the question box.

Collecting and Entering Stormwater Data

Eligibility

- To be eligible for CWNS, needs must be:
 - Capital costs
 - Fall within CWNS categories
 - Meet CWNS documentation criteria
- No longer limited to SRF eligibility criteria.

Category VI: Stormwater Management Program Needs

- Activities to plan and implement municipal stormwater programs in:
 - Phase I communities
 - Phase II communities
 - Non-traditional MS4s (e.g. universities, prisons, school districts, DOT)
 - Unregulated areas (previously VII-D)

Changes for 2008

- All stormwater data is collected/ reported in category VI: Stormwater Treatment System Needs
 - Now includes unregulated communities (formerly category VII-D-Urban NPS)
- Projects with integrated water quality and water quantity benefits are permitted.
- Four new sub-categories
- Need to identify whether or not the needed projects activities are specifically required by a NPDES permit

Stormwater Project Area?

☐ Phase I

☐ Phase II

☐ Non-traditional (I & II)

☐ Unregulated

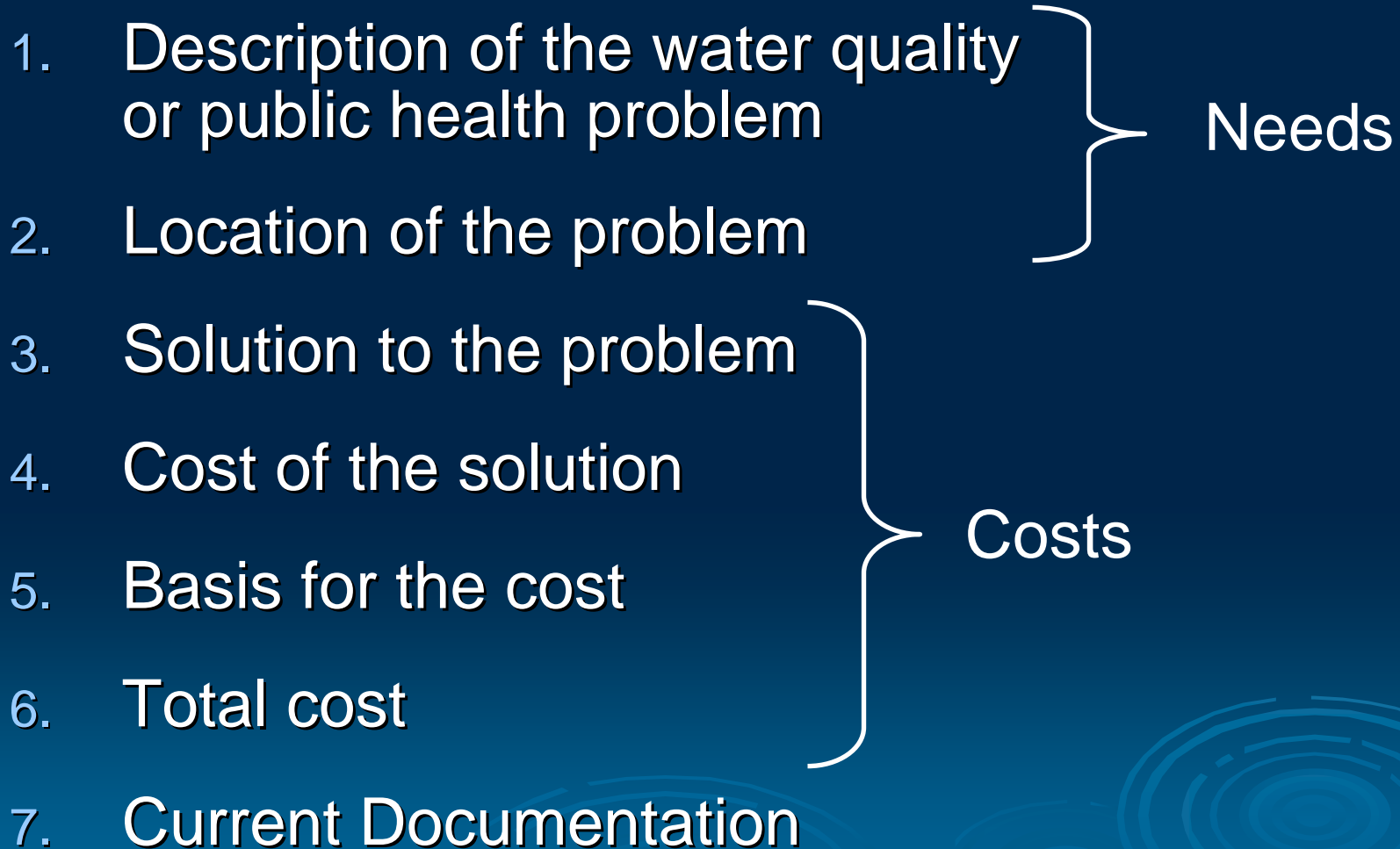
Specifically required by NPDES permit?

☐ Yes

☐ No

Needs by sub-categories	\$ Amount
VI-A-Traditional Conveyance	
VI-B- Traditional Treatment	
VI-C- Green Infrastructure/ LID	
VI-D- General Stormwater Management	

Seven Criteria for Documenting Needs and Costs

- 
- The diagram illustrates seven criteria for documenting needs and costs, organized into two main categories. The 'Needs' category includes the first two criteria, while the 'Costs' category includes the next five. The seventh criterion, 'Current Documentation', is not grouped. The background features a dark blue gradient with faint, concentric circular patterns resembling ripples in water.
1. Description of the water quality or public health problem
 2. Location of the problem
 3. Solution to the problem
 4. Cost of the solution
 5. Basis for the cost
 6. Total cost
 7. Current Documentation
- Needs
- Costs

1. Description of the water quality or public health problem

- Municipal Stormwater Management Plan
- Impaired Water/TMDL Listing
- TMDL
- State-approved Area-Wide or Regional Basin Plan
- Watershed-based plans
- CWSRF and other loan & grant applications
- Intended Use Plan

2. Location of the problem

- Provide a polygon outlining the area where the stormwater needs are located
- or
- If the stormwater plan is municipality-wide, indicate the name of the municipality.

Integration with WATERS Light Viewer

Clean Watersheds Needs Survey
No. 100000
Waters State Coordinator

1. Facility Information

Facility: AF Number: System Name:

Facility Name:

Address: Address 2:

City: State:

Zip Code:

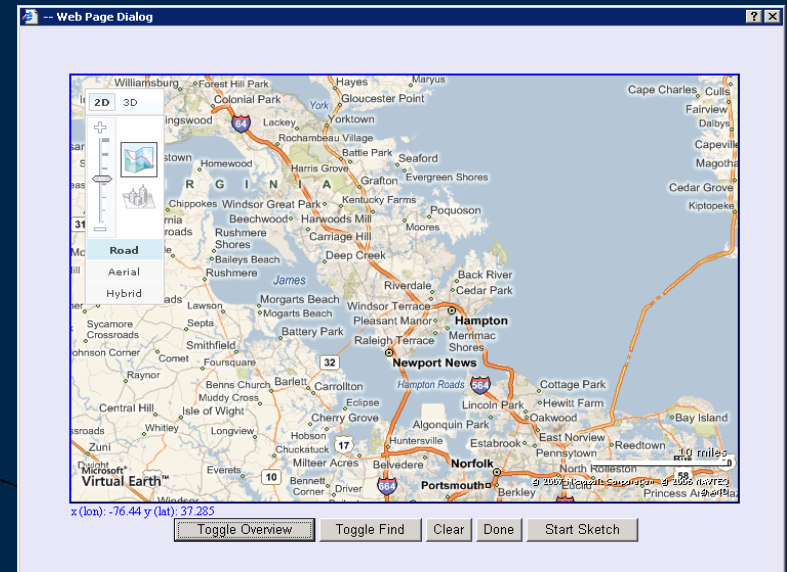
Point of Record (POR)

Name: Measure Date:

Method: Scale:

Datum:

Latitude: Longitude:



Facility Address

Address: Address 2:

City: State:

Zip Code:

Point of Record (POR)

Name: Measure Date:

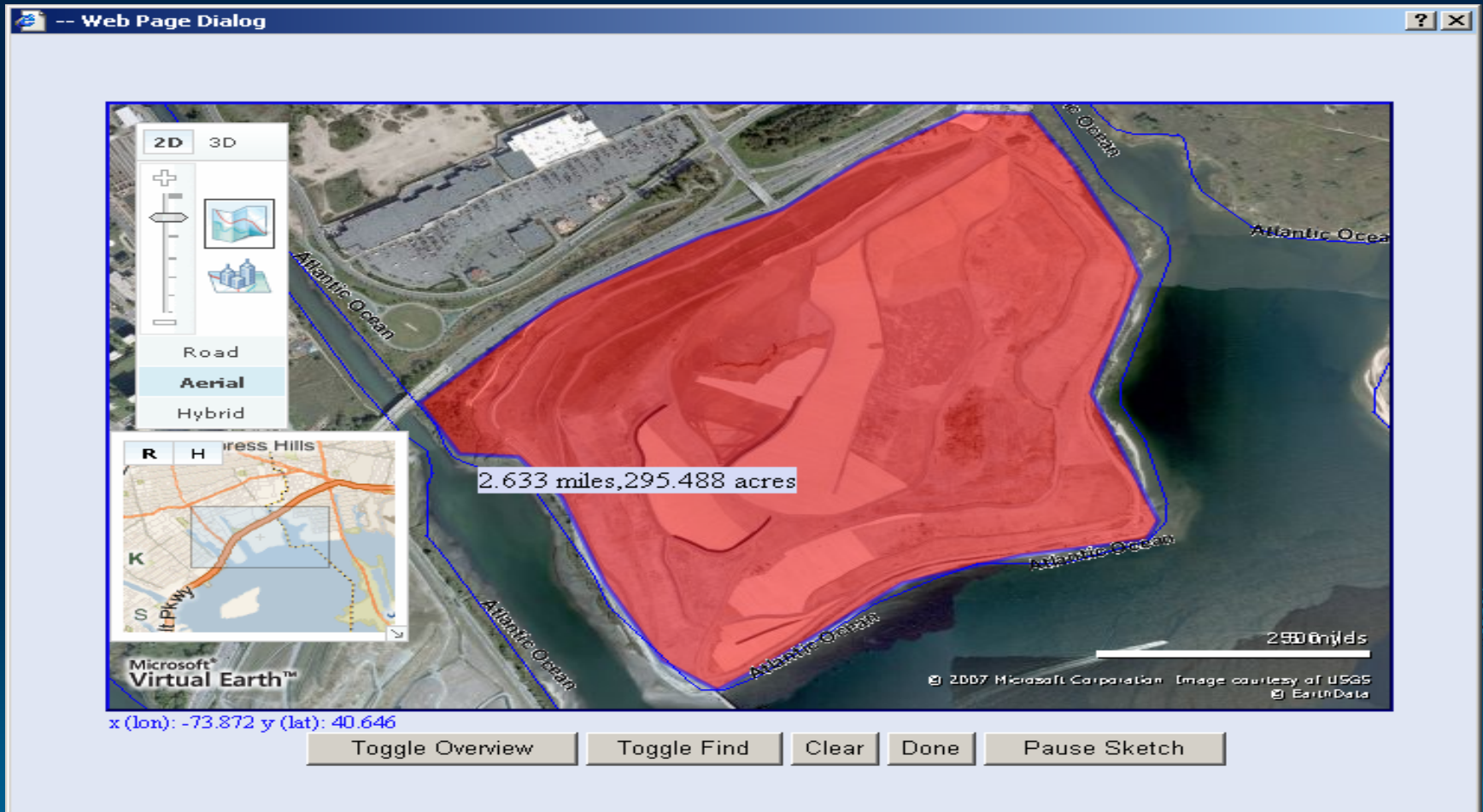
Method: Scale:

Datum:

Latitude: Longitude:

Latitude Direction: Longitude Direction:

Point/Line/Polygon Capture



3. Solution(s) to the problem

- VI-A: Traditional Conveyance
 - Pipes, inlets, road side ditches
- VI-B: Traditional Treatment
 - Wet ponds, dry ponds, manufactured devices
- VI-C: Green Infrastructure/ LID
 - Bioretention, constructed wetlands, permeable pavement, rain gardens, etc
- VI-D: General Stormwater Management
 - Planning, GIS systems, tracking systems, education, equipment (street sweepers)

Menu of BMPs

- Provides factsheets illustrating ways municipalities can meet six minimum control measures
- Hundreds of fact sheets covering:
 - Public outreach
 - Public participation
 - Illicit Discharge
 - Construction
 - Post-construction
 - Municipal operations
- www.epa.gov/npdes/stormwater/menuofbmps

[Menu of BMPs Home](#)[BMP Background](#)[Public Education & Outreach on Stormwater Impacts](#)[Public Involvement/Participation](#)[Illicit Discharge Detection & Elimination](#)[Construction Site Stormwater Runoff Control](#)[Post-Construction Stormwater Management in New Development & Redevelopment](#)[Pollution Prevention/Good Housekeeping for Municipal Operations](#)[Measurable Goals](#)

U.S. Environmental Protection Agency

National Pollutant Discharge Elimination System (NPDES)

[Recent Additions](#) | [Contact Us](#) | [Print Version](#) Search NPDES: [GO](#)[EPA Home](#) > [OW Home](#) > [OWM Home](#) > [NPDES Home](#) > [Stormwater](#) > Menu of BMPs[NPDES Topics](#)[Alphabetical Index](#)[Glossary](#)[About NPDES](#)[Search BMPs](#)[Filter by Minimum Measure](#) All of the words

All

[GO](#) [Browse Fact Sheets](#) [Search Help](#)

National Menu of Stormwater Best Management Practices

The National Menu of Best Management Practices for Stormwater Phase II was first released in October 2000. EPA has renamed, reorganized, updated, and enhanced the features of the website. These revisions include the addition of new fact sheets and revisions of existing fact sheets. Because the field of stormwater is constantly changing, EPA expects to update this menu as new information and technologies become available. Therefore EPA invites you to submit comments on the existing fact sheets and suggest additional fact sheet subjects (click on the comment button at the top or bottom of each website).

The Menu of BMPs is based on the Stormwater Phase II Rule's six minimum control measures. Click on the minimum control measure below to see the Phase II requirements for that minimum measure and for the BMPs that can be used to implement it. You can also perform a general search for keywords using the search menu above. For information on problems associated with stormwater, general BMP information, and the stormwater Phase II rule, go to [background information](#).

1. [Public Education](#) - BMPs for MS4s to inform individuals and households about ways to reduce stormwater pollution.
2. [Public Involvement](#) - BMPs for MS4s to involve the public in the development, implementation, and review of an MS4's

National Menu of BMPs

[Public Education](#) 1[Public Involvement](#) 2[Illicit Discharge](#) 3[Construction](#) 4[Post-construction](#) 5[Good Housekeeping](#) 6

4. The cost for each solution

- The cost to implement the BMPs
- Cannot include O & M costs in needs

5. The basis of the cost

- The source of the cost data, for example:
 - Cost of Previous Comparable Construction
 - Loan and grant applications
 - Intended Use Plan
 - State-Approved Area-wide or Regional Basin Plan
 - State-Approved Local Comprehensive Water and Sewer Plan
 - Capital Improvement Plan

State or Federal Grant Application

- Ex: Milwaukee County Parks Department
- Budget section provided cost information for:
 - Urban planning project
 - Planning
 - Construction projects
 - Design
 - Clearing
 - Grading
 - Grade on-site access road
 - Grade channel and remove material

Costs from comparable practices

- Cost must be based on at least 3 bid or completed projects that are:
 - Recent: within the last two years.
 - Similar in size, scope, and geographic area.
 - Size: plus or minus 25 percent.
 - Generally in the same county or watershed.
- Must be pre-approved by your EPA region and EPA headquarters

Example from 2004

- Minnesota established a per-acre stormwater rate according to the Capital Improvement Plans (CIPs) of 10 representative communities.
- Communities provided stormwater management needs and budgets.
- Developed average annual per acre rate for stormwater management
- Applied to the all MS4 communities
- MN recommendation: “A significant improvement would be to conduct a statewide survey of stormwater costs.”

Capital Budget and Capital Improvement Program

- Ex: Madison, WI
 - Greenway Improvements for drainage improvement – VI-C green infrastructure
 - Stormwater basins – VI-B traditional treatment
 - Street cleaning equipment – VI-D general stormwater program implementation

6. The total cost

- The total cost of all stormwater needs documented for the area (e.g., county, watershed) must be provided.

7. Current Documentation

- Point Source Needs:
 - \geq \$20 Million: January 1, 2002.
 - $<$ \$20 Million: January 1, 1998.
- Non-point Source and Stormwater Needs:
 - \geq \$20 Million: January 1, 1998.
 - $<$ \$20 Million: January 1, 1994.

Questions

Questions can be asked at anytime by typing them in the question box.

CWNS 2004 Lessons Learned




Lessons Learned in 2004

- Communication is key
 - Between state agencies
 - Between state and local agencies
 - Between states and EPA
- Contact EPA as you are developing your methodology.
 - EPA will provide methodology review at states request from June-December 2007.
 - <http://www.epa.gov/cwns/method.htm>

CWNS 2008 Data Entry System



Local Home Page



Welcome to the EPA Portal
Clean Watersheds Needs Survey

John Doe
NJ Local User

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My Roles

NJ Local User
[NJ State User](#)


Main Menu

[Create New Facility](#)
[Change Password](#)
[Support](#)

Facility/Project List

CWNS Number	Facility/Project Name	Feedback Status
34001001001	Passaic County Waste Water Treatment Plant	Local In Progress
34001001002	Whippany River Watershed	Local In Progress
34001001003	Westside Sewer System	State Review Requested
-	New Passaic County Waster Water Treatment Plant	State Review Requested

Facility Search

Search 

Search for "Sewer" returned 5 results

Select	Info
<input type="checkbox"/>	CWNS Number: 34001001006 Name: Mercer County Sewer System
<input type="checkbox"/>	CWNS Number: 34001001020 Name: MVienna Sewer System

1-2 of 5 | [Next](#)

[Request Access](#)

Document Management

State CWNS coordinator
can provide state
stormwater coordinator or
municipality access to
stormwater project(s).

Local Feedback Sheet



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Review Status

Status	State In Progress
Feedback Status	Local In Progress
Associated Local Users	
John Doe	
Scott Blocher	
<input type="button" value="Save"/>	

Review Comments

Date/Author	Comment
2/2/2008 Alejandro Escobar HQ	Please provide additional documentation for pipe replacement needs ...more
1/20/2008 Ketan Patel NJ	Updated flow data
1/15 /2008 Ketan Patel NJ	Updated discharge data
1/2/2008 Alejandro Escobar HQ	Updated flow and discharge data

1-4 of 20 | [Next](#)

[Add Comment](#) [View all](#)

Project: Whippany River Watershed

Survey

Project Feedback Sheet

[Edit](#) [State Fact Sheet](#) [Refresh](#) [Print](#)

Project Name: Whippany River Watershed

CWNS Number: 34001001002

Feedback Status: Local In Progress

Review Status: State in Progress

Click here

Project Type

Type	Present	Projected	Change
Agriculture - Animals	✓	✓	Process Improvement

Permits


NPDES	Permit Number	Type	Active	Use Data
✓	NJ00020923	Discharge	✓	✓
✓	NJ00020924	Discharge	✓	
	NJA222123	State	✓	
✓	NJ0020925	Discharge	✓	

Responsible Entity

Primary	Authority	Role/Title	Point of Contact	Phone	Email
✓	DC Water Resource Commission	Cognizant Official	Robert Lukin	703-444-1150	rlin@gmail.com

Needs Data

Needs, Funding Source

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Clean Watersheds Needs Survey
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NJ Local User

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Review Status

StatusState In Progress

Feedback StatusLocal In Progress

[Associated Local Users](#)
John Doe
Scott Blocher

Save

Review Comments

Date/Author	Comment
2/2/2008 Alejandro Escobar HQ	Please provide additional documentation for pipe replacement needs ...more
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1/2/2008 Alejandro Escobar HQ	Updated flow and discharge data

1-4 of 20 | [Next](#)

[Add Comment](#) [View all](#)

Project: Whippany River Watershed

SaveCancel


[Projects](#) [Needs](#) [Discharge](#) [Pollution Problems](#)

Needs Information

Needs

Document Title	Type	Publish Date	Author	Need Type	Adjusted Total (\$)	Requires New Document	Footnotable	Ongoing Dialogue	Edit	Delete
319 H Base Grant Application	01	07/01/2005	NJDEP	Federal	\$200,000		✓			<input type="checkbox"/>
Total				Federal	\$200,000					

Add Need



Funding Source

Type	Agency / Program	Award Date	Loan Number	Source	Total	% Funded by CWSRF	Delete
Loan	SRF	5/21/2001	cs-35001-00	Federal	\$320,000	100	<input type="checkbox"/>
Grant	SRF	6/22/2002	cs-67002-00	Federal	\$100,000	60%	<input type="checkbox"/>

Needs Data



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Main Menu

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Facility/Project List

CWNS Number	Facility Name	Status
34001001001	Passaic County Waste Water Treatment Plant	In Progress
34001001002	Whippany River Watershed	In Progress
34001001003	WestSide Sewer System	Submitted
-	New Passaic County Waster Water Treatment Plant	Requested

Project: Whippany River Watershed

Current Documents

Document Title	Type	Publish Date	Author	Need Type	Adjusted Total (\$)	Requires New Documentation	Footnotable	Ongoing Dialogue	Edit	Delete
Capital Plan for NJ	01	07/01/2005	NJDEP	Federal	\$200,000	✓				
NJ Wellhead Protection Plan	03	09/10/2004	NJDEP	Federal State	\$130,000 \$20,000		✓			
Total				Federal State	\$350,000 \$20,000					

Add

Update

Clear

[Back](#)

Document Details

Base Month/Year of cost Information :

Document Title:

Document File:

[Browse...](#)

☒ Available to Others

☐ Ongoing Dialogue

Project Description
Associated with

Needs and cost documentation can be submitted electronically.

Pollution Problem Data

Review Status

StatusState In Progress

Feedback StatusLocal In Progress

[Associated Local Users](#)

John Doe

Scott Blocher

Save

Review Comments

Date/Author	Comment
2/2/2008 Alejandro Escobar HQ	Please provide additional documentation for pipe replacement needs ...more
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1-4 of 20 | [Next](#)

[Add Comment](#) [View all](#)

Document Management

Facility

Project: Whippany River Watershed

SaveCancel

Project**Needs****Discharge****Pollution Problems**

Pollution Problems

Pollution Problem CategorySelect a Category

Available Problems

Selected Problems

Acid Mine Drainage

Agriculture

Atmospheric Deposition

Biosolids Disposal

Channelization

Combined Sewers

Animal Holding

Aquaculture

SaveCancel

List of 303D Impaired Waters

List ID	Water Body Name	Cause	Potential Source of Impairment	TMDL Name	TMDL Status	Delete
VAW-L08R-02	North Fork Blackwater River	Fecal Coliform		North Fork Blackwater River	Established	<input type="checkbox"/>

Add 303(d) Water

Impaired water data can be added from the Assessment, TMDL Tracking And Implementation System (ATTAINS) database.

Resources



Important Dates

- August 2007-November 2007:
 - Web seminars about the new documentation rules and review processes.
 - Program specific data collection and submission guidance materials available
 - Stormwater Web seminar in October or November.
- June-December, 2007: EPA will conduct pre-survey review of State's needs documentation methodologies.
- January 16-18, 2008: CWNS 2008 Kickoff Meeting for state coordinators
- January 22–October 27, 2008: Official CWNS 2008 data entry period
 - Video training modules available for all CWNS system users.

News and Contacts

- NPDES News – Sign up at www.epa.gov/npdes
- NPS-Stormwater Listserve – email to lyris@lists.epa.gov with: subscribe NPSINFO [your first name] [your last name] in the subject or body
- Nikos Singelis
EPA Office of Water
singelis.nikos@epa.gov
202-564-0692

Stormwater Resources & Tools

- EPA Stormwater Website
(www.epa.gov/npdes/stormwater)
- Menu of Best Management Practices (BMPs)
- Measurable Goals Guidance
- Urbanized Area Maps
- Outreach Materials (Stormwater Month)

<http://www.epa.gov/cwns>

- List of CWNS state & regional coordinators (Where You Live)
- News about CWNS 2008
 - Web seminar schedule, “Questions and Answers,” and links to recorded sessions
 - Resources (including Decentralized Best Practices Guide)
 - Links to contact information for state & regional NPS, Onsite , and Stormwater Coordinators
- Access to CWNS data and Reports to Congress

Contacts & More Information

Michael Plastino, US EPA

202-564-0682 or plastino.michael@epa.gov

Karen Fligger, US EPA

202-564-2992 or fligger.karen@epa.gov

Sign up for CWNS updates by emailing
cwns@epa.gov.

Questions

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